Gillespie Field Airport Layout Plan Update & Narrative Report



GILLESPIE FIELD DEVELOPMENT COUNCIL

Prepared by



P&D Aviation

April 15, 2004



Agenda

- Introduction
- Purpose of ALP Update
- Project Approach
- Aviation Forecasts
- Runway 27R Threshold
- Concept Recommended at Last Meeting
- Recommended Concept
- CLUP Information
- Economic Impact
- Next Steps
- Questions/Answers





Airport Layout Plan

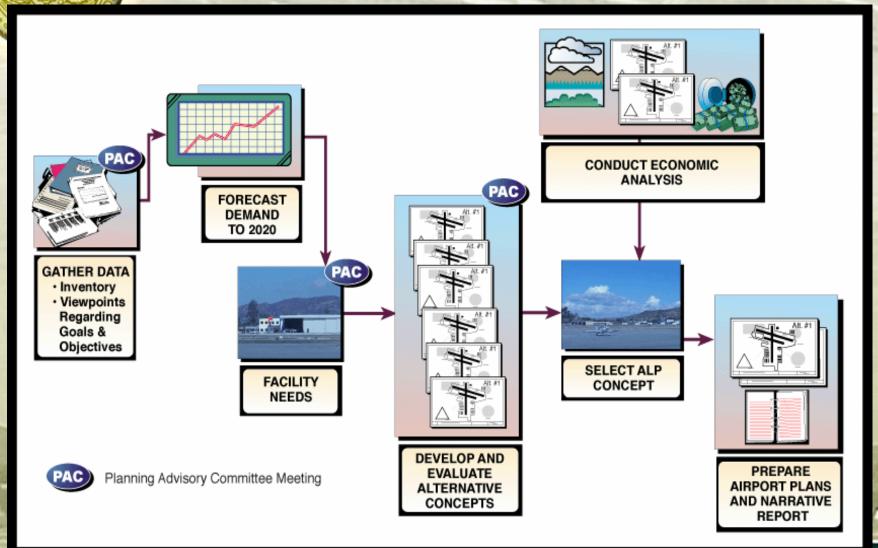
"An Airport Layout Plan (ALP) is a scaled drawing of existing and proposed land and facilities necessary for the operation and development of the airport."

FAA AC 150/5300-13, Airport Design



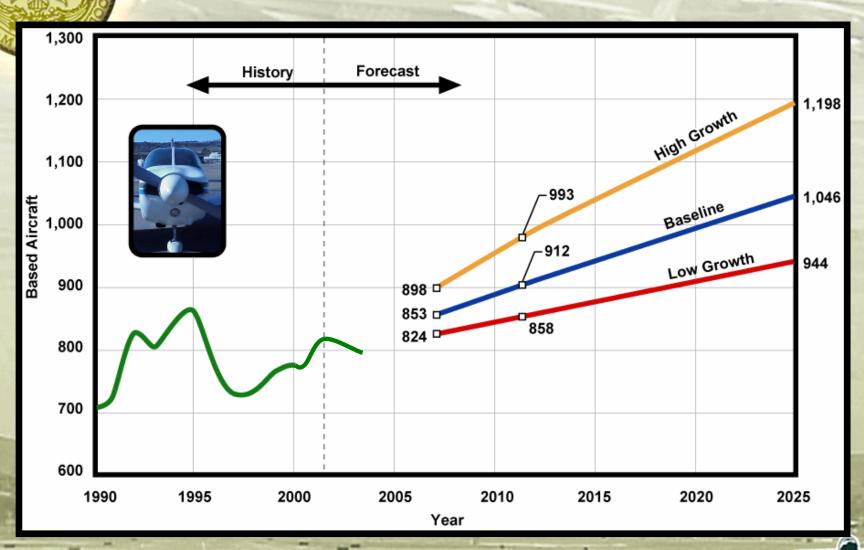
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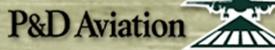
Planning Approach



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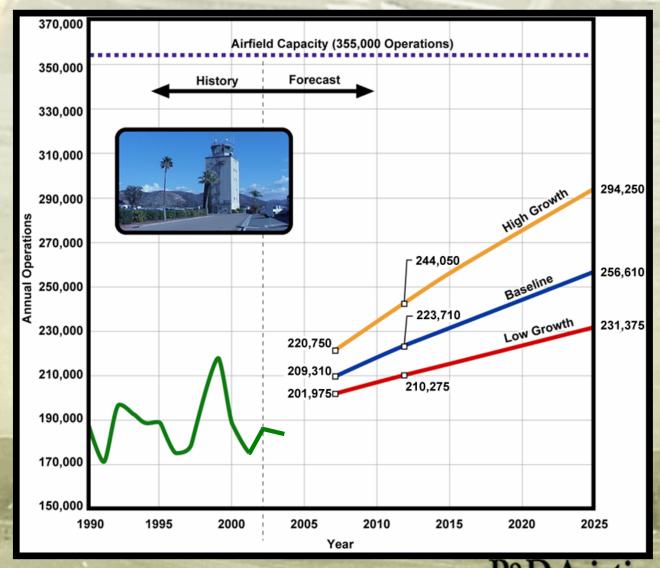
Forecast Based Aircraft



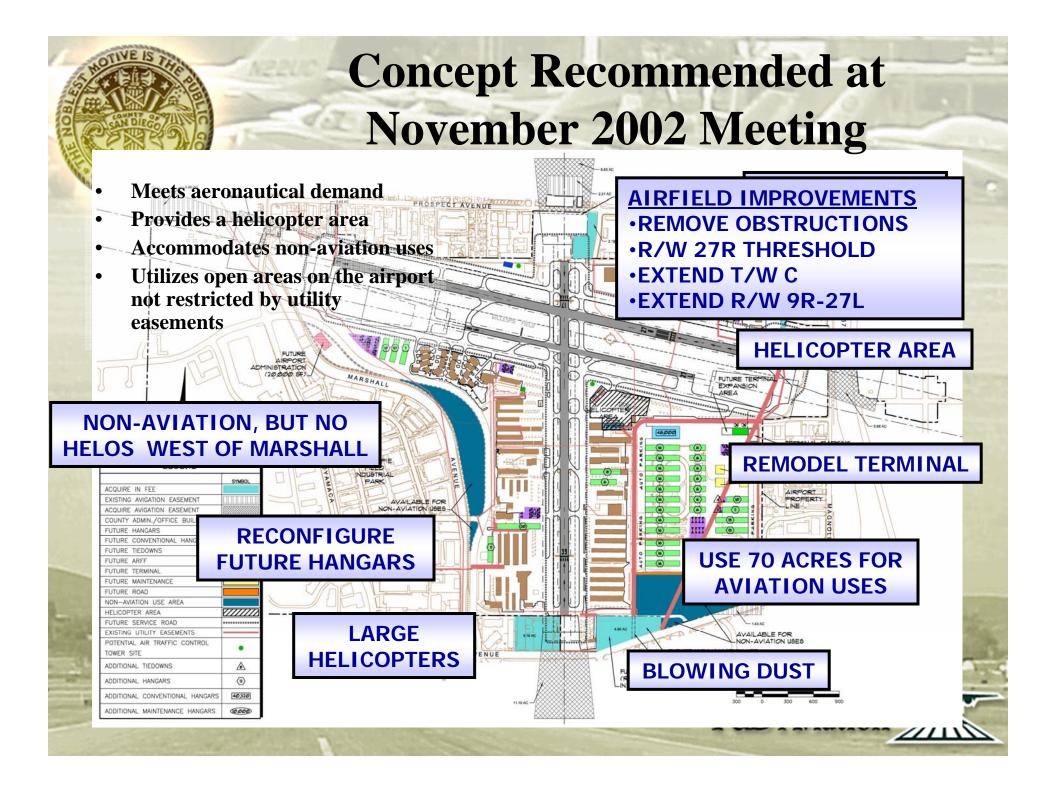


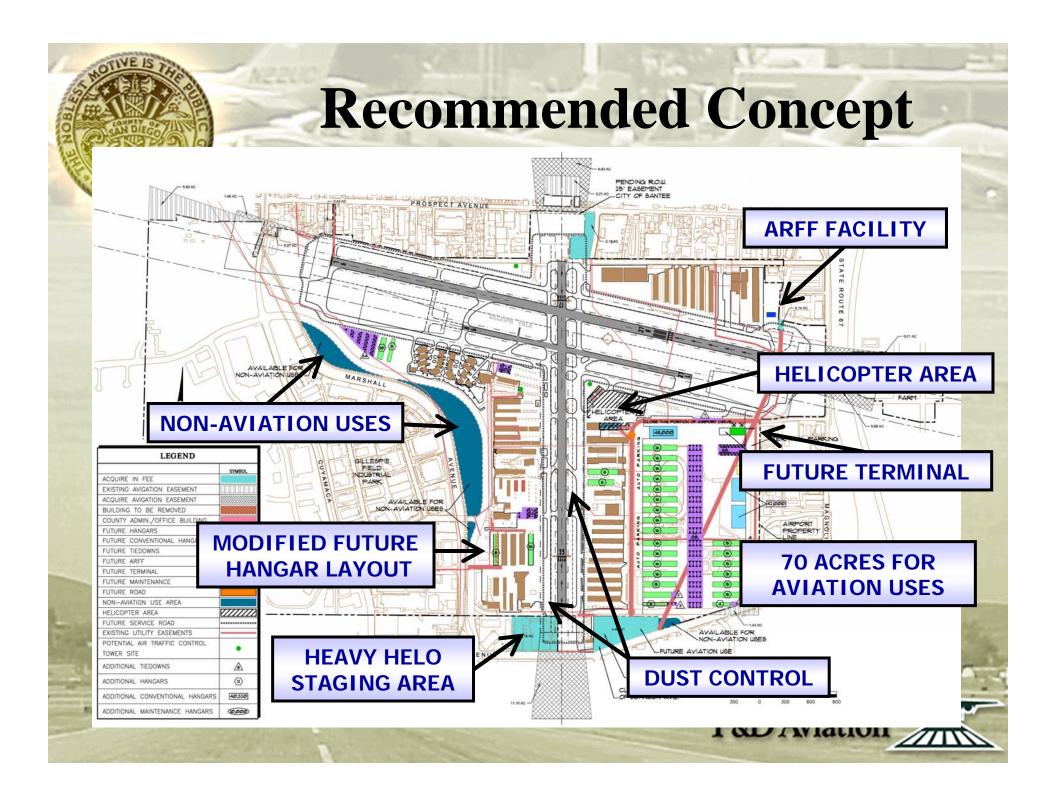


Forecast Aircraft Operations











Phase 1 Improvements

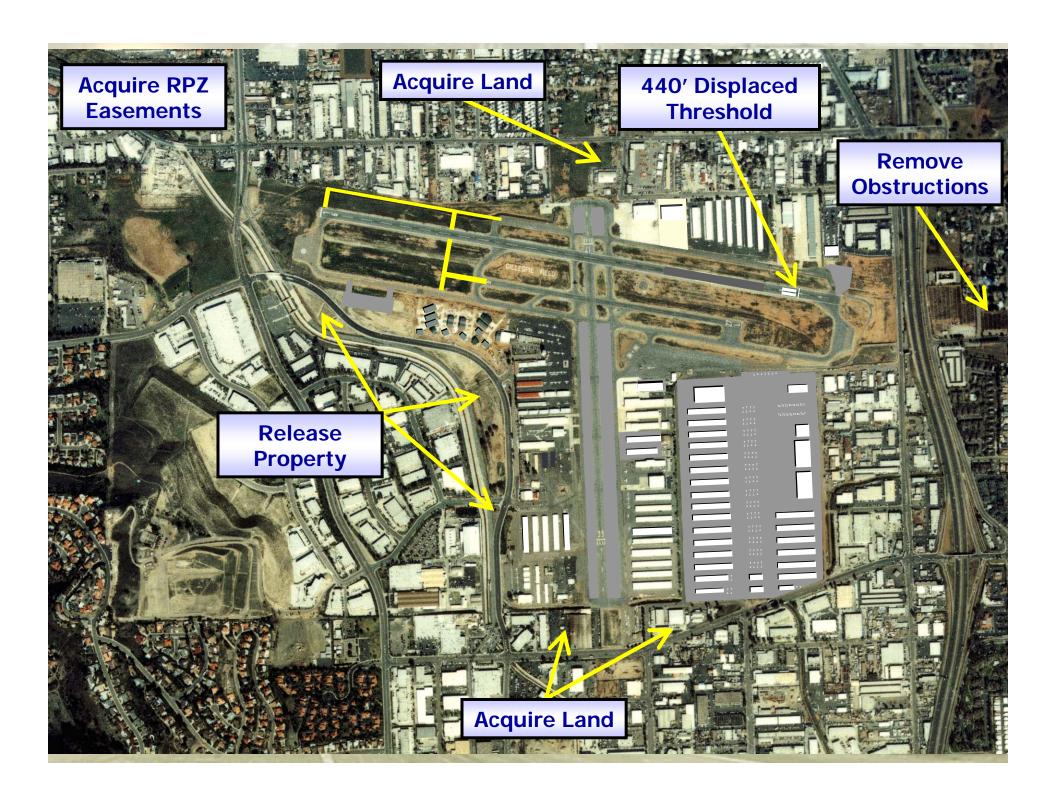
	Project	Timing					
	Phase 1 (2005 – 2009)						
	Runway 9R-27L Rehabilitation	Underway					
	Runway 9L-27R Rehabilitation	Underway					
	Construct Transient Aircraft Ramp south of T/W D at west end of R/W 9L-27R	2004					
	Relocate R/W 27R Displaced Threshold and Remove and/or Light Obstructions	2004					
	Improve Runway Safety Areas to Meet FAA Standards	2004/2006					
	Prepare Cost Estimate and Financial Plan	2005					
	Provide SDCRAA Information for CLUP Update	2005					
	Acquire Property (fee simple)	2005					
	Acquire Avigation Easements	2005					
	Release Property from Aeronautical Use (west of Marshall Avenue)	2005					
	Extend Taxiway C to the West	2005					
	Reconstruct Existing Transient Ramp	2005					
	Construct Based Aircraft Storage on Existing Leaseholds	2005 - 2006					
	Slurry Seal Runway 17-35 and Associated Taxiways	2006					
	Close Airport Drive between Joe Crosson and Wing Avenue	2006					
	Site Preparation of 70-acre Parcel	2006					
	Construct New Emergency Generator Building	2006					
	Airfield Lighting Improvements – PAPI R/W 27L	2007					
	Upgrade Existing Electrical Vault	2007					
	Construct 48,000 SF Hangar	2007					
100	Construct Based Aircraft Storage Facilities on 70-acre Parcel	2007 – 2009					
-	Construct Airfield Dust Control Improvements (infield areas along R/W 17-35)	2008					



Phase 2 & 3 Improvements

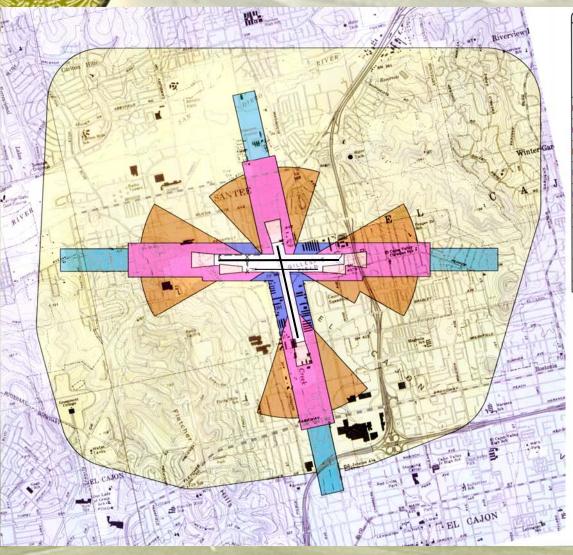
Project	Timing							
Phase 2 (2010 – 2014)								
Runway 17-35 Rehabilitation	Phase 2							
Construct Run-up Pad R/W 27R	Phase 2							
Enhance Runway/Taxiway Intersections (fillets)	Phase 2							
Construct General Aviation Terminal/Airport Administration Building	Phase 2							
Construct Helicopter Area	Phase 2							
Construct Additional Based Aircraft Storage Facilities	Phase 2							
Construct Conventional Hangars (42,000 SF and 10,000 SF)	Phase 2							
Phase 3 (2015 – 2025)								
Construct 423-foot Extension on West End of R/W 9R-27L	Phase 3							
Slurry Seal Runways and Associated Taxiways & Prepare Pavement Management Plan	Phase 3							
Construct Additional Based Aircraft Storage Facilities	Phase 3							
Construct Conventional Hangar (42,000 SF)	Phase 3							
Construct Aircraft Rescue and Fire Fighting (ARFF) Building	Phase 3							
Acquire ARFF Vehicle	Phase 3							
Relocate/Upgrade Airport Traffic Control Tower (ATCT) Building	Phase 3							
Replace Existing VASI with PAPI	Phase 3							
Develop Enhanced Instrument Approach Procedure Based on Available Technologies	Phase 3							





Future Noise Contours 2025 CNEL 65 CLUP Ldn 65 **ADOPT CNEL CONTOURS** 65 CNEL Contour **FOR CLUP UPDATE** CLUP Ldn 65 CLUP Ldn 65 Contour P&D Aviation

Caltrans Airport Safety Zones



LEGEND								
		Maximum Residential Density¹ (Dwelling Units per Gross Acre)		Maximum Non-Residential Density (Average Number of people per Gross Acre)				
Symbol	Zone	Rural/ Suburban	Urban	Rural/ Suburban	Urban			
	Runway Protection Zone	0	0	0,9	03			
	Inner Approach/ Departure Zone	1 d.u. per 10-20 ac.	0	25-40	40-60			
	3. Inner Turning Zone	1 d.u. per 2-5 ac.	Infill ²	60-80	80-100			
	Outer Approach/ Departure Zone	1 d.u. per 2-5 ac.	Infill ²	60-80	80-100			
	5. Sideline Zone	1 d.u. per 1-2 ac.	Infill ²	80-100	100-150			
	Traffic Pattern Zone	No Limit	No Limit	150	No Limit ⁴			

Clustering to preserve open land encouraged in all zones.

Source: California Airport Land Use Planning Handbook, State of California Department of Transportation Division of Aeronautics, January 2002.



ADOPT CALTRANS GUIDELINES FOR CLUP UPDATE

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² Allow infill at up to average of surrounding residential area only if non-residential uses are not feasible.

Exceptions can be permitted for agricultural activities, roads, and automobile parking provided that FAA criteria are satisfied.

⁴ Large stadiums and similar uses should be prohibited



Economic Impact

- Marshall Avenue site is suitable for multi-tenant industrial space.
- 267 businesses/organizations on County-owned land generate \$403 million in direct sales and 3,164 jobs. Regional output (direct, indirect and induced) is \$919 million and 6,250 jobs.
- \$919 million represents approximately 0.4% of the regional economy.
- Proposed (2025) development will generate \$530 million in direct sales. Regional output would be about \$1.2 billion and support 8,250 jobs county-wide.
- \$919 million in county-wide output generates \$9.9 million in local government revenues and \$51.2 million in federal/state government revenues. This increases to \$13.0 million and \$67.2 million, respectively, for proposed (2025) development.





Next Steps

- FAA review of Draft ALP.
- Revise ALP and Narrative Report per FAA and other comments.
- Submit Final ALP and Narrative Report.

